

Abstract

The subject matter of the invention is an innovative method for the separation of polymer systems regarding their molecular weight, chemical structure, chain architecture, and
5 colloidal additives. Such separations are currently accomplished by selective precipitation from solution, by a fractionated crystallization also from solution, and by means of gel chromatographic methods.

10 The invention pertains to a separation of polymer systems by means of permeation through polymer films - semi-crystalline, cross-linked, amorphous - with thicknesses in a nanometer scale. The restriction to thicknesses in a nanometer scale is essential for a high throughput of polymers. Of particular
15 significance is the selectivity towards colloidal additives with a structure that is not in chain form.